

Subpart O-Standards of Performance for Sewage Treatment Plants

Applicability and designation of affected facility - §60.150

Source	All Emissions
General	<ol style="list-style-type: none">1.) Each incinerator that combusts wastes containing more than 10 percent sewage sludge (dry basis) produced by municipal sewage treatment plants, or2.) Each incinerator that charges more than 1000 kg (2205 lb) per day municipal sewage sludge (dry basis), and3.) The facility has commenced construction or modification after June 11, 1973.

Standard for particulate matter - §60.152

Source	Particulate Matter
General	<p>Facility shall not discharge or cause the discharge into the atmosphere of:</p> <ol style="list-style-type: none">1.) Particulate matter at a rate in excess of 0.65 g/kg dry sludge input (1.30 lb/ton dry sludge input).2.) Any gases which exhibit 20 percent opacity or greater.

Monitoring of operations - §60.153

Source	Particulate Matter
Sludge incinerators	<ol style="list-style-type: none">1.) Facility shall install, calibrate, maintain, and operate a flow measuring device which can be used to determine either the mass or volume of sludge charged to the incinerator. For additional information see §60.153 (a) (1).2.) Facility shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained.3.) Facility shall install, calibrate, maintain, and operate a weighing device for determining the mass of any municipal solid waste charged to the incinerator when sewage sludge and municipal solid waste are incinerated together. For additional information see §60.153 (a) (3).

Multiple hearth, fluidized bed, or electric sludge incinerators	<ol style="list-style-type: none"> 1.) Facility shall install, calibrate, maintain, and operate a flow measuring device which can be used to determine either the mass or volume of sludge charged to the incinerator. For additional information see §60.153 (a) (1). 2.) Facility shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained. 3.) Facility shall install, calibrate, maintain, and operate a weighing device for determining the mass of any municipal solid waste charged to the incinerator when sewage sludge and municipal solid waste are incinerated together. For additional information see §60.153 (a) (3).1. For incinerators equipped with a wet scrubbing device, install, calibrate, maintain and operate a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. For additional information see §60.153 (b) (1). 4.) Facility shall install, calibrate, maintain and operate a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. For additional information see §60.153 (b) (2). 5.) Facility shall install, calibrate, maintain and operate temperature measuring devices at every hearth in multiple hearth furnaces; in the bed and outlet of fluidized bed incinerators; and in the drying, combustion, and cooling zones of electric incinerators. For additional information see §60.153 (b) (3). 6.) Install, calibrate, maintain and operate a device for measuring the fuel flow to the incinerator. For additional information see §60.153 (b) (4). 7.) Facility shall collect and analyze a grab sample of the sludge fed to the incinerator once per day. For additional information see §60.153 (b) (5). 8.) Facility shall retain the following information and make it available for inspection by the Administrator for a minimum of 2 years: <ol style="list-style-type: none"> a.) For incinerators equipped with a wet scrubbing device, a record of the measured pressure drop of the gas flow through the wet scrubbing device, as required by §60.153. (b)(1) b.) A record of the measured oxygen content of the incinerator exhaust gas, as required by §60.153 (b)(2). c.) A record of the rate of sludge charged to the incinerator, the measured temperatures of the incinerator, the fuel flow to the incinerator, and the total solids and volatile solids content of the sludge charged to the incinerator, as required by §60.153 (a)(1), (b)(3), (b)(4), and (b)(5).
Multiple hearth, fluidized bed, or electric sludge incinerator subject to the provisions of this subpart from which the particulate matter emission rate is less than or equal to 0.38 g/kg of dry sludge input (0.75 lb/ton)	<p>Facility shall be required to comply with the requirements in §60.153 (a), (b), and (c) during all periods of this incinerator following the performance test except that:</p> <ol style="list-style-type: none"> 1.) Continuous operation of the monitoring devices and data recorders in paragraphs (a)(1), (b)(3), and (b)(4) of §60.153 shall not be required. 2.) Daily sampling and analysis of sludge feed in §60.153 (b)(5) shall not be required. 3.) Recordkeeping specified in §60.153 (c)(3) shall not be required.
Sludge incinerator other than a multiple hearth, fluidized bed, or electric incinerator or any sludge incinerator equipped with a control device other than a wet scrubber	<p>Facility shall submit to the Administrator for approval a plan for monitoring and recording incinerator and control device operation parameters. The plan shall be submitted to the Administrator:</p> <ol style="list-style-type: none"> 1.) No later than 90 days after October 6, 1988, for sources which have provided notification of commencement of construction prior to October 6, 1988. 2.) No later than 90 days after the notification of commencement of construction, for sources which provide notification of commencement of construction on or after October 6, 1988. 3.) At least 90 days prior to the date on which the new control device becomes operative, for sources switching to a control device other than a wet scrubber.

Test methods and procedures - §60.154

Source	Particulate Matter
General	<ol style="list-style-type: none"> 1.) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of this part or other methods and procedures as specified in this section, except as provided for in §60.8(b). 2.) The owner or operator shall determine compliance with the particulate matter emission standards in §60.152. For additional information on methods and equations see §60.154 (b) (1) through (5). 3.) The owner or operator of any sludge incinerator subject to the provisions of this subpart shall conduct a performance test during which the monitoring and recording devices required under §60.153(a)(1), (b)(1), (b)(2), (b)(3), and (b)(4) are installed and operating and for which the sampling and analysis procedures required under §60.153(b)(5) are performed. The owner or operator shall provide the Administrator at least 30 days prior notice of the performance test to afford the Administrator the opportunity to have an observer present. <ol style="list-style-type: none"> a.) For incinerators that commenced construction or modification on or before April 18, 1986. For additional information see §60.154 (d) (1). b.) For incinerators that commence construction or modification after April 18, 1986, the date of the performance test shall be determined by the requirements in § 60.8.

Reporting - §60.155

Source	All Emissions
Multiple hearth, fluidized bed, or electric sludge incinerator	<p>Facility shall submit to the Administrator semi-annually a report in writing which contains the following:</p> <ol style="list-style-type: none"> 1.) A record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than, by a percentage specified below, the average scrubber pressure drop measured during the most recent performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows: For further information see §60.155(a)(1). 2.) A record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent.
Multiple hearth, fluidized bed, or electric sludge incinerator from which the average particulate matter emission rate measured during the performance test required under §60.154(d) exceeds 0.38 g/kg of dry sludge input (0.75 lb/ton of dry sludge input)	<p>Facility shall include in the report for each calendar day that a decrease in scrubber pressure drop or increase in oxygen content of exhaust gas is reported a record of the following:</p> <ol style="list-style-type: none"> 1.) Scrubber pressure drop averaged over each 1-hour incinerator operating period. 2.) Oxygen content in the incinerator exhaust averaged over each 1-hour incinerator operating period. 3.) Temperatures of every hearth in multiple hearth incinerators; of the bed and outlet of fluidized bed incinerators; and of the drying, combustion, and cooling zones of electric incinerators averaged over each 1-hour incinerator operating period. 4.) Rate of sludge charged to the incinerator averaged over each 1-hour incinerator operating period. 5.) Incinerator fuel use averaged over each 8-hour incinerator operating period. 6.) Moisture and volatile solids content of the daily grab sample of sludge charged to the incinerator.

sludge incinerator other than a multiple hearth, fluidized bed, or electric incinerator or any sludge incinerator equipped with a control device other than a wet scrubber	The owner or operator shall include in the semi-annual report a record of control device operation measurements, as specified in the plan approved under §60.153(e).
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Delegation of authority - §60.156

General	<ol style="list-style-type: none"> 1.) In delegating implementation and enforcement authority to a State under section 111(c) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State. 2.) Authorities which will not be delegated to States: §60.153(e).
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